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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,351	09/16/2003		David S. Zuck	QC-001-1C 4141	
27946	7590	12/20/2004		EXAMINER	
ARTHUR J.			CARRILLO, BIBI SHARIDAN		
6601 KOLL CENTER PARKWAY SUITE 245				ART UNIT	PAPER NUMBER
PLEASANTO	N, CA	94566	1746		

DATE MAILED: 12/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<i>y</i>				
	10/664,351	ZUCK ET AL.	U				
Office Action Summary	Examiner	Art Unit					
	Sharidan Carrillo	1746					
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ad	ldress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 23 Au	igust 2004						
· _ ·	action is non-final.						
3) Since this application is in condition for allowan		secution as to the	e merits is				
closed in accordance with the practice under E							
Disposition of Claims							
4)⊠ Claim(s) <u>1-19,21-28 and 30-46</u> is/are pending i	n the application.						
4a) Of the above claim(s) <u>1-18 and 30-33</u> is/are	• •						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>19,21-26 and 34-46</u> is/are rejected.							
7)⊠ Claim(s) <u>27 and 28</u> is/are objected to.	•						
8) Claim(s) <u>1-19, 21-28 and 30-46</u> are subject to r	estriction and/or election require	ment.					
Application Papers							
9) The specification is objected to by the Examiner							
10) The drawing(s) filed on is/are: a) acce	D) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the o	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form P	ΓΟ-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
 Certified copies of the priority documents 	have been received.						
Certified copies of the priority documents	have been received in Application	on No					
Copies of the certified copies of the priori	ty documents have been receive	d in this National	Stage				
application from the International Bureau	` ''						
* See the attached detailed Office action for a list of	of the certified copies not receive	d.					
Attachment(s)	_						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal Pa		D-152)				
Paper No(s)/Mail Date	6) 🔲 Other:						

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DETAILED ACTION

Specification

- 1. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The specification fails to provide antecedent basis for the limitations recited in claims 27 and 28. Specifically, the specification fails to teach a temperature above 180 degrees F and soaking at a pressure greater than 1 atmosphere. Claims 40-41 are duplicative claims of 27-28.
- 2. The use of the trademark VESPEL has been noted in this application on page 2, for example. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 42-43 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification teaches ionized hydrogen and

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ionized nitrogen, but does not teach the limitation of any "ionized gas", as recited in claim 42. The specification teaches a temperature about 212 degrees F, but does not teach the limitation of "at least" 212 degrees F". Therefore, the above limitations constitute new matter.

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 34-46 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 34 is indefinite because of the term "adapted". The examiner suggests the language "source which provides". Claim 34 is further indefinite because there is no positive step of removing aluminum and halogen from the channel of the semiconductor equipment. Claim 46 is indefinite because "the semiconductor" lacks positive antecedent basis.

Double Patenting

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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8. Claims 19, 21-26, 34-39, and 44 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 7, and 11 of U.S. Patent No. 6648982. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims are directed to removing aluminum and a halogen from semiconductor equipment by forcing steam through the holes or channels of the equipment.

Response to Arguments

- 9. The rejection of the claims under 112, first paragraph is withdrawn in view of arguments presented by applicant.
- 10. The rejection of the claims under 112, second paragraph, is maintained for the reasons set forth above.
- 11. The rejections of the claims as being anticipated and obvious over Chen et al., in view of secondary references, are withdrawn in view of the newly amended claims.
- 12. This application contains claims 1-18 and 30-33 drawn to an invention nonelected with traverse in Paper No.08/23/2004. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharidan Carrillo whose telephone number is 571-272-1297. The examiner can normally be reached on Monday-Thursday, 6:30-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael E. Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sharidan Carrillo Primary Examiner